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L1: Entry 1 of 1 File: DWPI Jun 10, 1998

DERWENT-ACC-NO: 1998-299918
DERWENT-WEEK: 200141

TITLE: Annealing machined sintered ceramic part for use in corrosive gas - close to sintering temperature to round-off exposed machined grain edges, to prevent particle formation when used in semiconductor production

INVENTOR: AIHARA, Y; KAWASAKI, S

PATENT-ASSIGNEE: NGK INSULATORS LTD (NIGA), NIPPON GAISHI KK (NIGA)

PRIORITY-DATA: 1996JP-0339103 (December 5, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 846667 A2	June 10, 1998	E	011	C04B041/00
US 6258440 B1	July 10, 2001		000	B32B003/26
JP 10167859 A	June 23, 1998		009	C04B041/80
KR 98063777 A	October 7, 1998		000	C04B041/00
TW 406293 A	September 21, 2000		000	C04B041/00
KR 259572 B1	June 15, 2000		000	C04B041/00

DESIGNATED-STATES: AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 846667A2	December 2, 1997	1997EP-0309690	
US 6258440B1	December 2, 1997	1997US-0982346	
JP 10167859A	December 5, 1996	1996JP-0339103	
KR 98063777A	December 4, 1997	1997KR-0065874	
TW 406293A	December 1, 1997	1997TW-0118027	
KR 259572B1	December 4, 1997	1997KR-0065874	

INT-CL (IPC): B32 B 3/26; C04 B 41/00; C04 B 41/80; C23 F 15/00; H01 L 21/00; H01 L 21/205; H01 L 21/3065; H01 L 21/68

ABSTRACTED-PUB-NO: EP 846667A
BASIC-ABSTRACT:

A sintered ceramic part for use in a corrosive gas has a machined surface (2), where the grains have machined edges, and each of these edges is made round by material transport. Also claimed is a process for the above part whereby a body is at least ground to shape and is then annealed.

ADVANTAGE - Annealing removes microcracks, which are the starting point for corrosion, to prevent the generation of particles from aluminium nitride and alumina used inside semiconductor production equipment.

ABSTRACTED-PUB-NO: US 6258440B

EQUIVALENT-ABSTRACTS:

A sintered ceramic part for use in a corrosive gas has a machined surface (2), where the grains have machined edges, and each of these edges is made round by material transport. Also claimed is a process for the above part whereby a body is at least ground to shape and is then annealed.

ADVANTAGE - Annealing removes microcracks, which are the starting point for corrosion, to prevent the generation of particles from aluminium nitride and alumina used inside semiconductor production equipment.

CHOSEN-DRAWING: Dwg.6/7

DERWENT-CLASS: L02 L03 P73
CPI-CODES: L02-A04; L04-X;